

What is claimed is:

1. A circuit for preventing unintentional power off of a mobile terminal, comprising:

5 a power charge unit for receiving a first state signal representing one of a state of the mobile terminal, which are a state of power-on or a state of power-off, from a main chip set of the mobile terminal, changing or maintaining a state of a second state signal, which
10 represents a normal power off of the mobile terminal and an abnormal power off of the mobile terminal, according to the state of the first state signal, and outputting the second state signal when the state of the second state signal is a state of power-on;

15 an enable signal generator for generating a power-on enable signal by receiving the second state signal from the power charge unit or by receiving a power key input signal, which is generated by a user of the mobile terminal to turn on the mobile terminal; and

20 a voltage control unit for supplying electric power from a battery in the power charge unit to the main chip set of the mobile terminal in response to the power-on enable signal from the enable power signal generator by controlling the electric power to be suitable for the
25 mobile terminal.

2. The circuit as recited in claim 1, wherein the

power key input signal invokes to generate a power-hold signal in order to generate the power-on enable signal and the power-hold signal can be substituted by the second state signal.

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3. The circuit as recited in claim 1, wherein the power charge unit includes a battery, an inner battery unit equipped inside of the battery and an outer battery unit equipped outside of the battery,

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wherein the inner battery unit has;

an inverter for receiving the first state signal and inverting the first state signal;

a first resistor having a first end connected to an input line of the first state signal and a second end connected to a ground;

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a second resistor having a first end connected to an output end of the inverter and a second end connected to the ground;

a third resistor for having a first end connected to electric power of the battery; and

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a JK flip-flop for having a power supply end connected to a second end of the third resistor, a J end for receiving the first state signal, a K end for receiving an output signal of the inverter and outputting an output signal of Q end as a second state signal,

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wherein the outer batter unit has:

a fourth register for having a first end connected to the Q end of said JK flip-flop; and

a first diode for a positive end connected to the second end of the fourth register and passing the
5 second state signal as an enable signal.

4. A method for preventing unintentional power off of a mobile terminal, which has a power charge unit for supplying electric power to the mobile terminal, an enable
10 signal generator for generating a power-on enable signal to turn on the mobile terminal, and a voltage controller for supplying the suitable electric power to a main chip set of the mobile terminal in response to the power-on enable signal, the method comprising the steps of:

15 a) turning on the mobile terminal when one of a second state signal from the power charger unit and the power key input signal inputted from a user of the mobile terminal is inputted to the enable signal generator;

b) generating a first state signal at the main chip
20 set of the mobile terminal and outputting the first state signal to the power charger unit to set the state of the first state signal as power-on at the power charge unit after turning on the mobile terminal;

c) changing or maintaining a state of the second
25 state signal according to the state of the first state signal, which is power-on, in order to generate the second state signal at the power charger unit;

d) generating the first state signal at the main chip set and outputting the first state signal to the power charger unit to set the first state signal's state as power-off when a power off signal is inputted by a user;

5 e) changing the state of the second state signal according to the state of the first state signal, which is power-off, in order to inactivate the second state signal at the power charger unit; and

f) turning off the mobile terminal after inactivating
10 the second state signal.

5. The method as recited in claim 4, further comprising the step of:

g) returning to step a) by the second state signal
15 having the state of power-on, if the mobile terminal is unintentionally powered off by loose contact with the power charge unit.